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 Title: **JP5283060A2: NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY, MANUFACTURE OF THE NEGATIVE ELECTRODE AND LITHIUM SECONDARY BATTERY USING SAME NEGATIVE ELECTRODE**

 Country: **JP Japan**
 Kind: **A**


 Inventor: **MABUCHI AKIHIRO;
NAKAGAWA YOSHITERU;
YAMASHITA MITSUO;**


 Assignee: **OSAKA GAS CO LTD**
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 Application Number: **JP1992000073846**


 IPC Code: **[H01M 4/02](#); [H01M 4/04](#); [H01M 4/58](#); [H01M 10/40](#);**


 Priority Number: **March 30, 1992 JP1992000073846**

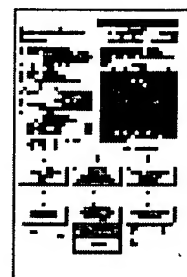
 Abstract: **Purpose:** To substantially improve discharge capacity by using a mesophase small ball having surface baked after treatment with quinoline, as a lithium carrier.

Constitution: A mesophase small ball (MCMB) is subjected to quinoline treatment and then to baking treatment. The quinoline treatment in this case is such that MCMB is kept in contact with quinoline in a static or agitating condition, generally for 0.5 to 3 hours at a temperature within the range of 10 to 80°C, or preferably for 1 to 2 hours at a temperature within the range of 20 to 30°C. As a result of the treatment in that condition, the surface of MCMB is impregnated with quinoline and treated accordingly. After the quinoline treatment, MCMB is preferably dried and then subjected to baking treatment. This baking treatment is conducted in inert gas atmosphere such as nitrogen and argon at a temperature within the range of 650 to 1400°C. MCMB after baked is kneaded with a suitable binder, and molded under pressure to form an electrode body, thereby providing a negative electrode for a lithium secondary battery.

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